

Title (en)

Detecting device for abnormal workpiece rotation in non-circular workpiece grinding machine

Title (de)

Detektionsvorrichtung für anormale Werkstückrotation in einer Schleifmaschine für unrunde Werkstücke

Title (fr)

Dispositif de détection de la rotation anormale d'une pièce de travail dans une machine de meulage de pièce de travail non circulaire

Publication

EP 2103382 A2 20090923 (EN)

Application

EP 09152651 A 20090212

Priority

JP 2008071681 A 20080319

Abstract (en)

In a non-circular workpiece grinding machine (2), a proximity sensor (20a) is arranged to face a non-circular portion of a workpiece (W) for sensing a maximum diameter portion of the non-circular portion to detect that the maximum diameter portion is rotating in a detection phase section when the work spindle (13) is rotating in a low speed rotational phase region in which the work spindle is controlled by a numerical controller (22) to rotate at a low speed. Abnormality judging means is provided for judging that an abnormal workpiece rotation is occurring when the maximum diameter portion of the non-circular portion is not detected by the proximity sensor in the state that the work spindle is rotating in the low speed rotational phase region.

IPC 8 full level

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CPC (source: EP US)

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Citation (applicant)

JP H05138422 A 19930601 - KOMATSU MFG CO LTD

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AL BA RS

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